

Inverse Variation

An equation is said to be an Inverse Variation if it can be written as

$$y = \frac{k}{x} \quad \text{or} \quad yx = k$$

Where k = a constant of proportionality.

Examples of Inverse Variation:

$$\textcircled{1} \quad t = \frac{40}{u}$$

$$\textcircled{2} \quad p = \frac{1}{4q}$$

Write the following inverse variation equations using the language of direct or inverse variation.

$$\textcircled{1} \quad t = \frac{40}{u}$$

The variable t is inversely
Proportional with u with
a constant of 40

$$\textcircled{2} \quad P = \frac{1}{4q}$$

The variable P is inversely proportional to q with constant of $\frac{1}{4}$.

How we know it is an inverse variation function vs a direct variation function:

I. The variable is in the denominator.

